

# SyGTS-5 / SyGTS-7

## APLICACIÓN / APPLICATION

- Los controladores de factor de potencia SyGTS-5 y SyGTS-7 regulan los 5 cuadrantes y están diseñados para aplicaciones de baja tensión.

Dispone de Alarmas de:

- Sobre voltaje
- Limite inferior de compensación
- Limite superior de compensación.

La programación permite ajustar:

- Coseno: entre 0,8 y 1,00
- ON: entre 1 y 120 sec.
- OFF: entre 1 y 120 sec.
- Limite de protección a sobrepresión, entre 240 y 300AVC.
- Modo de operación: manual o automática.

- Power factor controllers SyGTS-5 / SyGTS-7 are 5 quadrant controllers designed for low voltage applications.

It has alarms:

- Over voltage
- Lower limit compensation
- Upper Limit compensation.

The program allows to adjust:

- Cosine: between 0.8 and 1.00
- ON: 1 to 120 sec.
- OFF: 1 to 120 sec.
- Limit overpressure protection, between 240 and 300AVC.
- Operating mode: manual or automatic.

## CARACTERÍSTICAS / CHARACTERISTICS

Las ventajas mas importantes son:

- Multivoltaje 85-265VAC
- Multi frecuencia 50-60 Hz
- Medida y visualización del factor de potencia.
- Ajuste automatico de Ck.
- Auto polarización.
- Ajuste del intervalo de conexión/desconexión en los capacitores.
- Indicación del fallo via LED.
- Ajuste de 1 a 7 etapa de capacitores.

Most important advantages are:

- Multi-voltage 85-265VAC
- Multi Frequency 50-60 Hz
- Measurement and display of power factor.
- Automatic tuning of Ck.
- Auto polarization.
- Set the range on / off in the capacitors.
- Fault indication via LED.
- Setting the stage 1-7 capacitors.

## ESPECIFICACIONES TÉCNICAS / TECHNICAL DATA-SHEET

Tensión nominal / Voltage	85 - 265 VAC
Frecuencia nominal / Rated frequency	50 / 60Hz
Rango de Operacion / Range of operation	(0.8-1,2)x Un
Entrada de transformador de medida / Transformer input as	5 A
Rango de corriente de linea / Current range online	0,02-5,5 A
Dirección de transformador de corriente (polarización) / Address current transformer (polarization)	Automatica
Ajuste Ck / Set Ck	Automatico
Contacto de Salida / Output contact	250V/3A AC
Alarma / Alarm	250V/3A AC
Salida de alarma ventilador / Fan alarm output	250V/3A AC
Pantalla / Screen	3x7 segmentos LED
Temperatura de operación / Operating temperature	-25°C a 65 ° C
Material plastico Inflamable según UL94/ Combustible plastic material according to UL9	clase V0
Dimensiones / Dimensions	96x96 mm
Profundidad de montaje / Mounting Depth	90 mm maximo
Clase de protección / Protection class	IP20 (carcasa IP65)
Peso / Weight	600 /615 gr

## MODELOS / MODELS



Tipo	Código	Nº de pasos	Regulación	Montaje
Type	Code	Steps	Regulation	Mounting
SyGTS-5	81990	5	Monofásica	Panel
SyGTS-7	81991	7	Monofásica	Panel

# RAPIDUS

## MODELOS / MODELS

Tipo Type	Código Code	Nº de pasos Steps	Regulación Regulation	Montaje Mounting
RAPIDUS	606006	12	Trifásica	Panel
RAPIDUS-S	606011	12	Monofásica	Panel



## ESPECIFICACIONES TÉCNICAS / TECHNICAL DATA-SHEET

General	606006 RAPIDUS	606011 RAPIDUS-S
Graphical LCD	6 buttons	*
Password Protection	*	*
Measurement Type	3 Phase	1 Phase
Supply Voltage AC	95-272 V AC	95-272 V AC
Supply Voltage DC	95-272 V AC	95-272 V AC
Day/Night Input	85-265 V AC	85-265 V AC
Number of Steps	1-12 Selectable	1-12 Selectable
Current Transformer Ratio	1-5000 A	1-5000 A
Voltage Transformer Ratio	1-5000 A	1-5000 A
Connection Type	3P4VV	3P4VV
Type of Switching	Relay	Relay
Target cosQ	0,80--1,00 Inductive or Capacitive	0,80--1,00 Inductive or Capacitive
Accuracy Class Voltage	0.2	0.2
Accuracy Class Current	0.2	0.2
Accuracy Class Active Energy	0.5	0.5
Number of Measurement in a period	512	512
Power Consumption	< 10VA	< 10VA
Harmonics / current and voltage	Upto 51st	Upto 51st
THD-Voltage in %	*	*
THD-Current in %	*	*
Phasor Diagram	*	*
Data Logging		
Average, Minimum, Maximum Values	*	*
Alarms	*	*
Time Stamp	*	*
Overvoltage Category	300V Cat III	300V Cat III
Measured Range L-N	95-272 Vrms	95-272 Vrms
Measured Range L-L	165-470 Vrms	165-470 Vrms
Measured Frequency Range	45-65 Hz	45-65 Hz
Power Consumption	<0.1 VA	<0.1 VA
Sampling Freq.between 45-65 Hz	25,6 kHz	25,6 kHz
Rated Current	6A	6A
Measurement Range	0.01-6A	0.01-6A
Overvoltage Category	300V Cat II	300V Cat II
Measurement Surge Voltage	2 kV	2 kV
Power Consumption	<0.2 VA	<0.2 VA
Peak current for 1 sec	100 A	100 A
Sampling Freq.between 45-65 Hz	25,6 kHz	25,6 kHz
Input Outputs		
• Relay Outputs	12	12
Max. Switching Current	2 A	2 A
Max. Switching Voltage	250 VAC	250 VAC
Max. Switching Power for a Single Relay	1250 VA	1250 VA
• Alarm Relay Outputs	2	2
Max. Switching Current	4 A	4 A
Max. Switching Voltage	250 VAC	250 VAC
Max. Switching Power	1000 VA	1000 VA
• GEN Input	1	1
Input range	85 - 265 VAC	85 - 265 VAC
Mechanical Properties		
Weight	0,670 kg	0,653 kg
Protection Class	IP 40 front, IP 20 rear	IP 40 front, IP 20 rear
Assembly Type	Panel Mount	Panel Mount
Dimensions	W144xH144xD78	W144xH144xD78
• Cable Cross Sections		
Voltage, Current, All Relay Outputs, Gen Input		
Stranded:	2,5 mm2 - 14AWG	2,5 mm2 - 14AWG
Solid:	4mm2 - 12 AWG	4mm2 - 12 AWG
RS 485	2x1,5 mm2 - 2x16 AWG	2x1,5 mm2 - 2x16 AWG
Stranded:	1,5 mm2 - 16AWG	1,5 mm2 - 16AWG
Solid:	1,5 mm2 - 16 AWG	1,5 mm2 - 16 AWG
Solid:	2x0.75 mm2 - 2x18 AWG	2x0.75 mm2 - 2x18 AWG
Ambient Conditions		
Operating Temperature	-20 C .... +60 C..	-20 C .... +60 C..
Storage Temperature	-30 C .... +80 C..	-30 C .... +80 C..
Relative Humidity (no condensation)	95%	95%
Modbus RTU	*	*
Battery	*	*
Real Time Clock	*	*
Standarts in Compliance		
Safety requirements for electrical equipment for measurement, control, and laboratory use	300 VAC CAT III acc. to IEC 61010-I	300 VAC CAT III acc. to IEC 61010-I